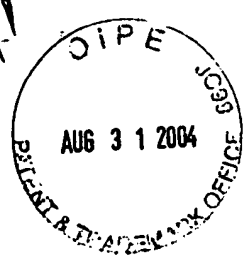


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MH-5065

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Vetro et al.

Title: ENCODING A VIDEO WITH A VARIABLE FRAME-RATE WHILE
MINIMIZING TOTAL AVERAGE DISTORTION

Filing Date: April 16, 2001

Application Serial No.: 09/835,691

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
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Pursuant to 37 C.F.R. §1.56(a), Applicant hereby cites the following documents (copies enclosed) listed on the attached copy of Form PTO-1449.

This Information Disclosure Statement is filed in accordance with the paragraph of 37 CFR §1.97 checked below:

 1.97(b) This Information Disclosure Statement is filed:

- (1) Within three months of the filing date of a national application; OR
- (2) Within three months of the date of entry of the national stage of an international application; OR
- (3) Before the mailing of a first Office Action on the merits.

No fee or certification is required.

 X 1.97(c) This Information Disclosure Statement is filed after the period specified in paragraph (b) above, but before the mailing date of either:

- (1) A Final Action under 37 CFR 1.113; OR
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AND is accompanied by either:
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 X the Certification under 37 CFR
1.97(e) as set out below; OR

 the fee of \$240.00 under 37 CFR
1.17(p).

 1.97(d) This Information Disclosure Statement is filed
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1.97(d) for consideration of this
Information Disclosure Statement; AND,
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X each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of this Statement;

or

— no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, or to the knowledge of the undersigned Attorney after making reasonable enquiry, was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing date of this Statement.

MH-5065

Authorization is hereby given to charge the indicated fee(s)
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Respectfully submitted,

MITSUBISHI ELECTRIC RESEARCH LABORATORIES

By: 

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Reg. No. 48,485

Attorney for Assignee

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(617) 621-7539

Customer No. 022199

Enclosures

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Form PTO-1449
(modified 12/91)U.S. DEPT OF COMMERCE
Patent and Trademark OfficeAttorney Docket Number:
MH-5065Serial Number:
09/835,691**INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

Applicant:

Vetro et al.

Filing date:

April 16, 2001

Group art area:

U.S. PATENT DOCUMENTS

Examiner Initial	Patent number	Date	Name	Class	Subclass	Filing date if appropriate

U.S. PATENT APPLICATIONS

Application serial number	Date	Name	Class	Subclass	Filing date if appropriate

FOREIGN PATENT DOCUMENTS

Document number	Date	Country	Class	Subclass	Translation
WO 00/18137	March 20, 2000	PCT	H04N7	50	YES
WO 02/071639	September 12, 2002	PCT	H04B1	66	YES

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1.	Vetro, et al., "An Overview of MPEG-4 Object-Based Encoding Algorithms," Proceedings International IEEE Conference on Information Technology, Coding and Computing, April 2, 2001.
2.	Turga, et al., "Classification based mode decisions for video over network," IEEE Transactions on Multimedia, March 2001, vol. 3, no. 1, pp. 41-52.
3.	Vetro, et al., "MPEG-4 Rate Control for Multiple Video Objects," IEEE Transactions on Circuits and Systems for Video Technology, vol. 9, no. 1, February 1999, pp. 186-199.
4.	Wang, et al., "Multi-program video coding with joint rate control," Global Communications Conference, November 18, 1996, pp. 1516-1520.
5.	Martins, et al., "Joint control of spatial quantization and temporal sampling for very low bit rate video," Proceeding of IEEE International Conference on Acoustics, Speech, and Signal Processing, May 7, 1996, pp. 2072-2075.

Examiner:

Date Considered:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP .609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.